

### Milestone 3 Demo Specifications

Test of robot's ability to localize, navigate to the beacon, capture (grasp) beacon, and deposit beacon at the specified grid coordinates (on the floor).

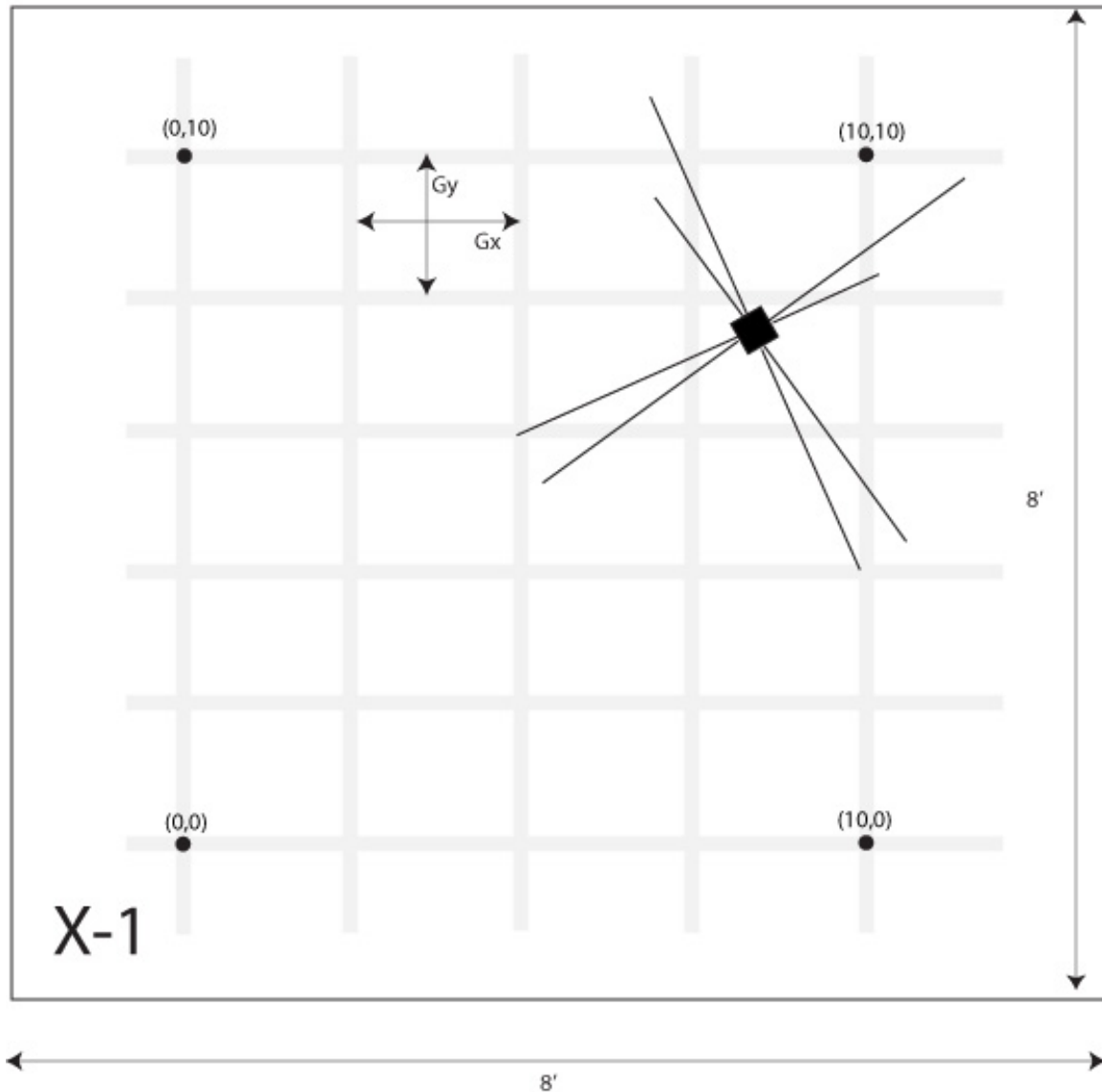


Figure 1

## Instructions:

For this demonstration, you will need to download the BT Server and Client Code from the myCoursesII page. The client code is what you will be using in the actual competition, so this is your chance to get acquainted with it. A copy of the BT server code is also provided for testing purposes. Note that there is a slight change in how the parameters are delivered – both the attacker and defender get to see the initial location of the flag as well as the final destination. The associated README file should provide sufficient detail for use; if not consult with the TA assigned to your team.

## Procedure

- Each robot will be placed in the lower left hand corner of an 8' x 8' subset of the final competition floor. No obstacles will be present.
- Run is pressed – no further user intervention is allowed.
- The robot first localizes to the grid.
- The robot will then search for the beacon, navigate towards it, pick it up with your lifting/gripping mechanism, travel to the destination specified by the X-Y coordinate pair, place the beacon at the destination (on the floor), back off from the drop point, and then halt.

This must be accomplished within a span of 10 minutes.

Information regarding demonstration times will be posted on the course web page at least 3 days prior to the demonstration date.

